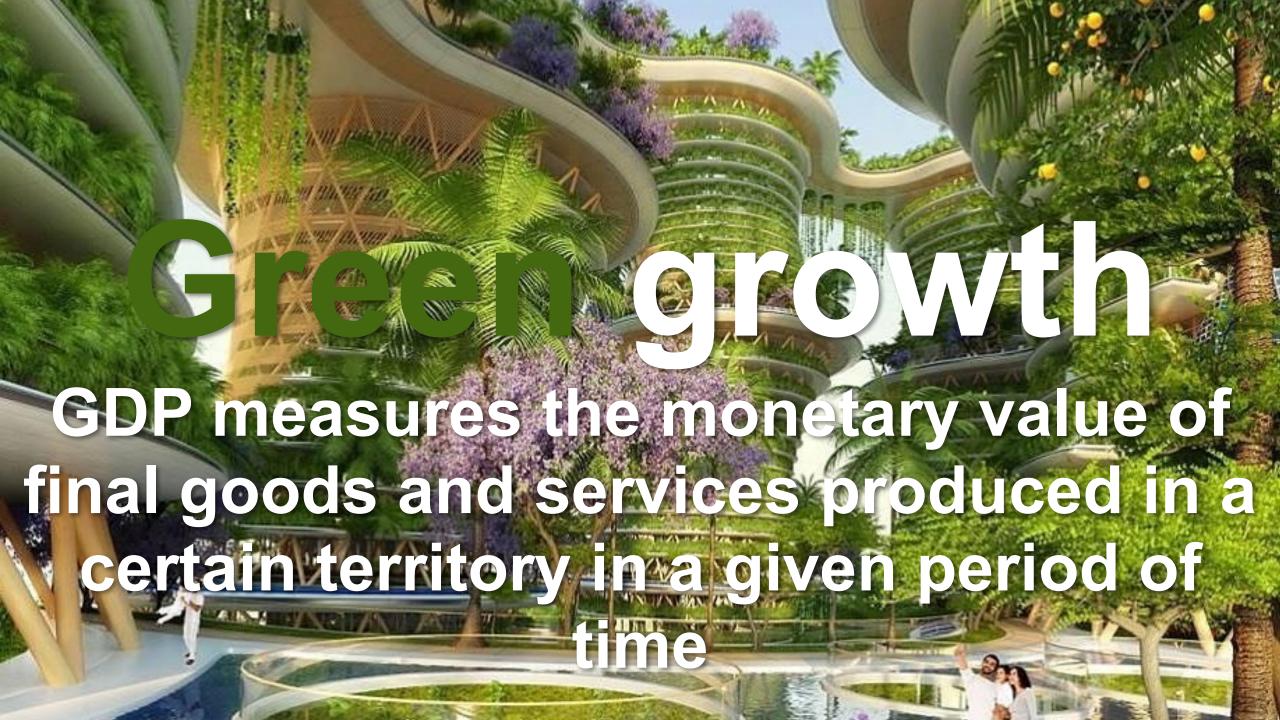
Environmental crisis Inequality

















Are there alternatives?



The commons

What is the commons?



THERE IS NO COMMONS WITHOUT COMMONING!

A commons is characterized by:

a resource



a **community** gathered around it



a **set of rules** to care for the resource (and community!)



The commons is...

The commons is...

...a social system by which communities co-create and co-manage resources





Cooperative (type of organisation) Workers (community) Governance (rules)







Why are the new commons important?



Real-life ways to outperform and transcend capitalism





Human = homo economicus



Human = homo economicus



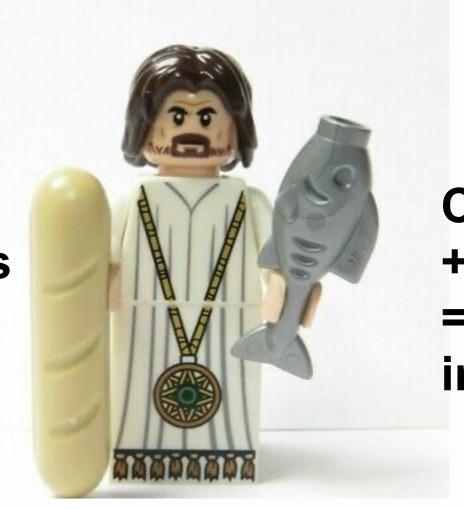
Competition => innovation

Human = homo economicus + homo socialis



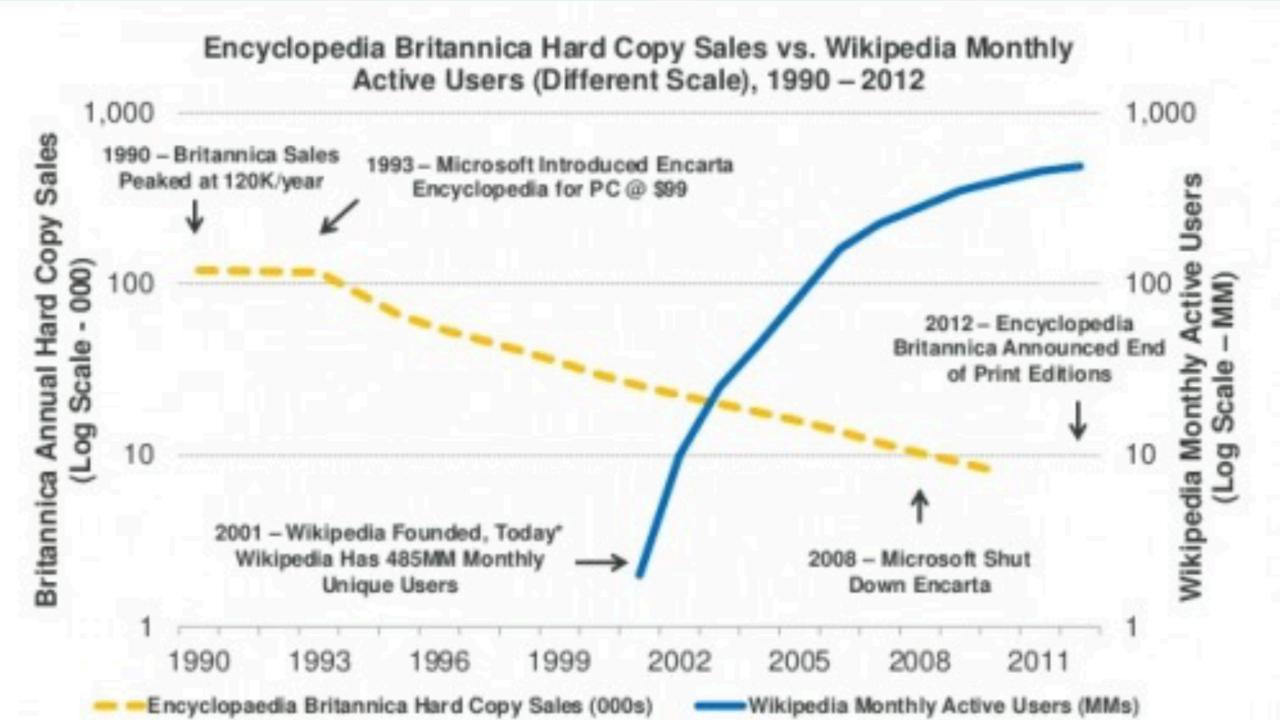
Competition => innovation

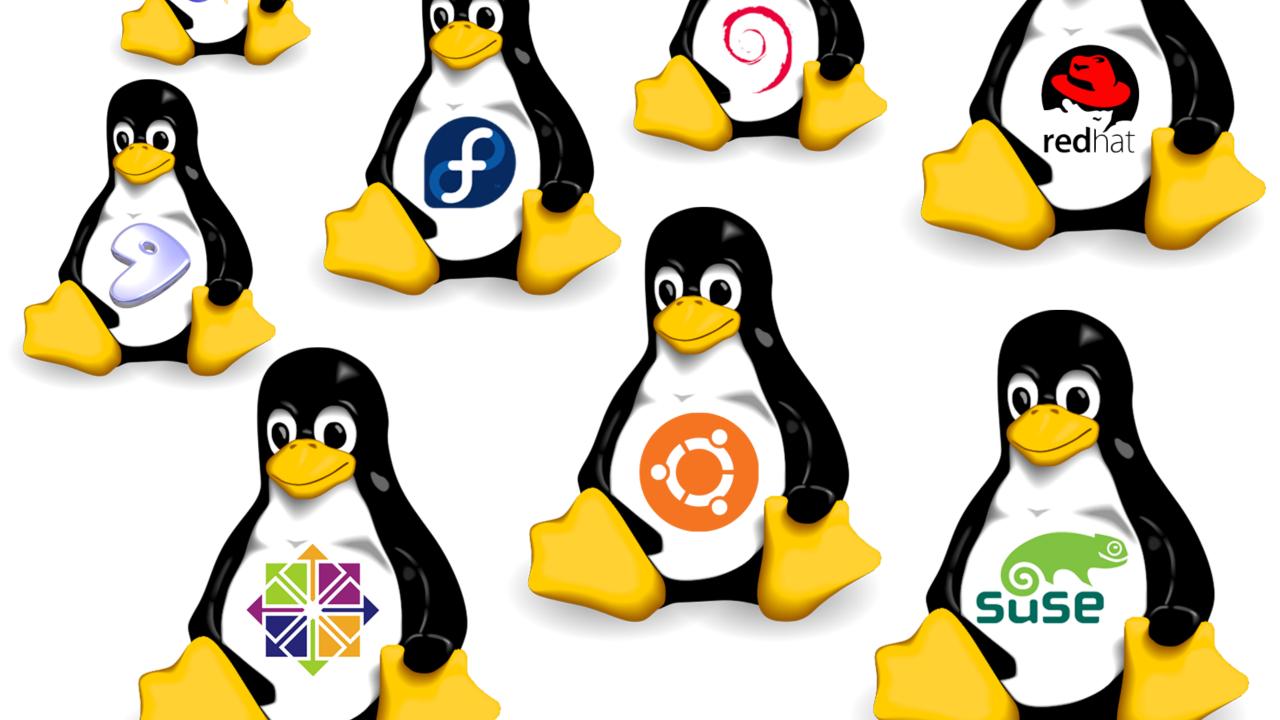
Human = homo economicus + homo socialis



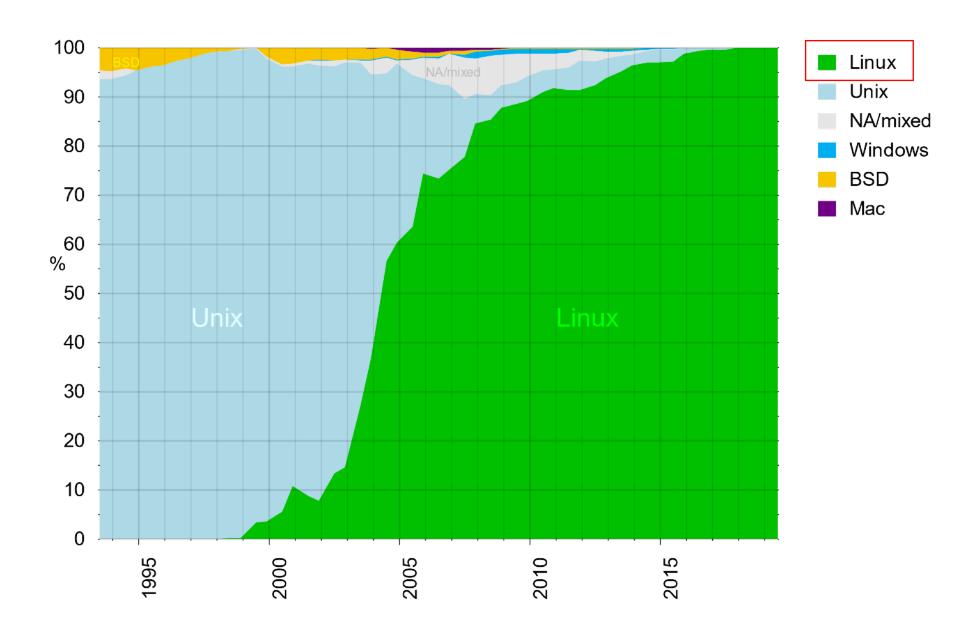
Competition
+ cooperation
=>
innovation

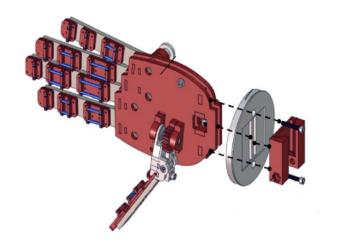




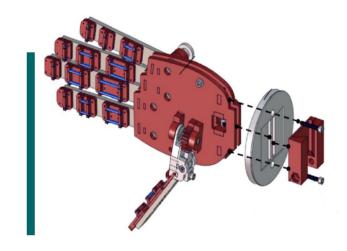




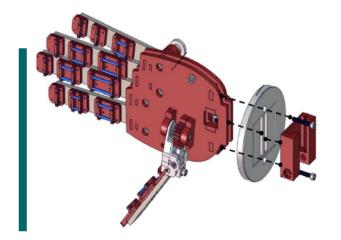




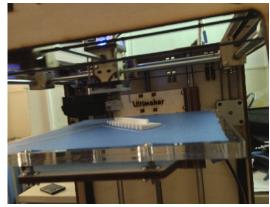
Digital commons

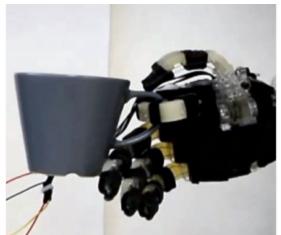


Digital commons



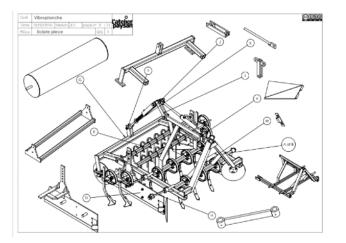
Localised manufacturing







Digital commons



Localised manufacturing







Tzoumakers @ Tzoumerka, GR

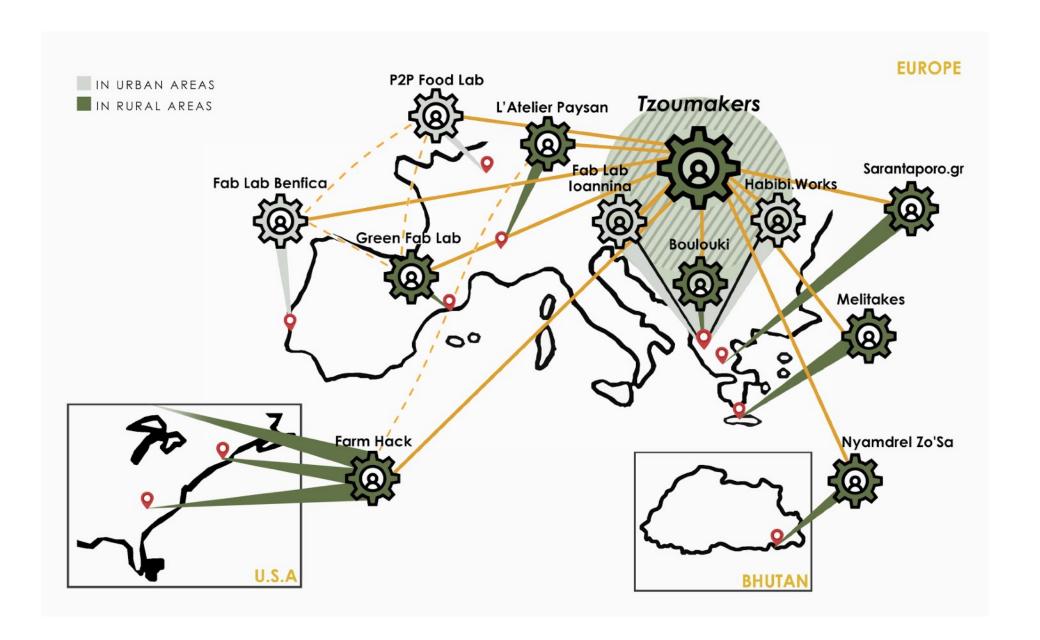


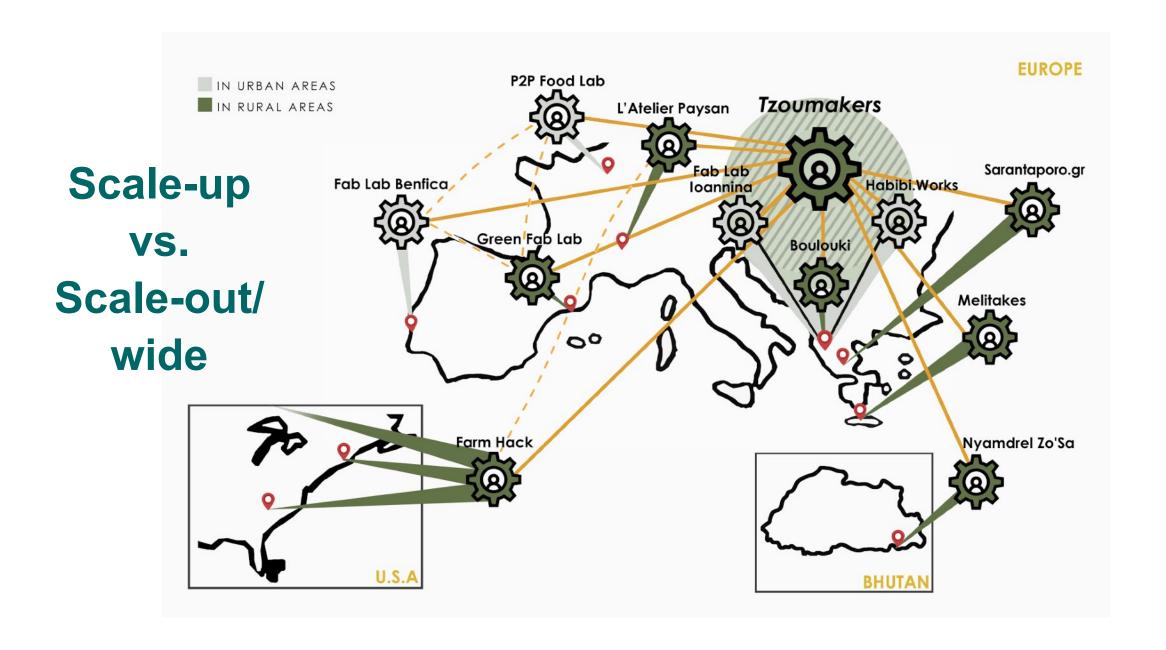




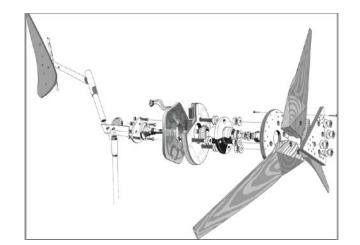








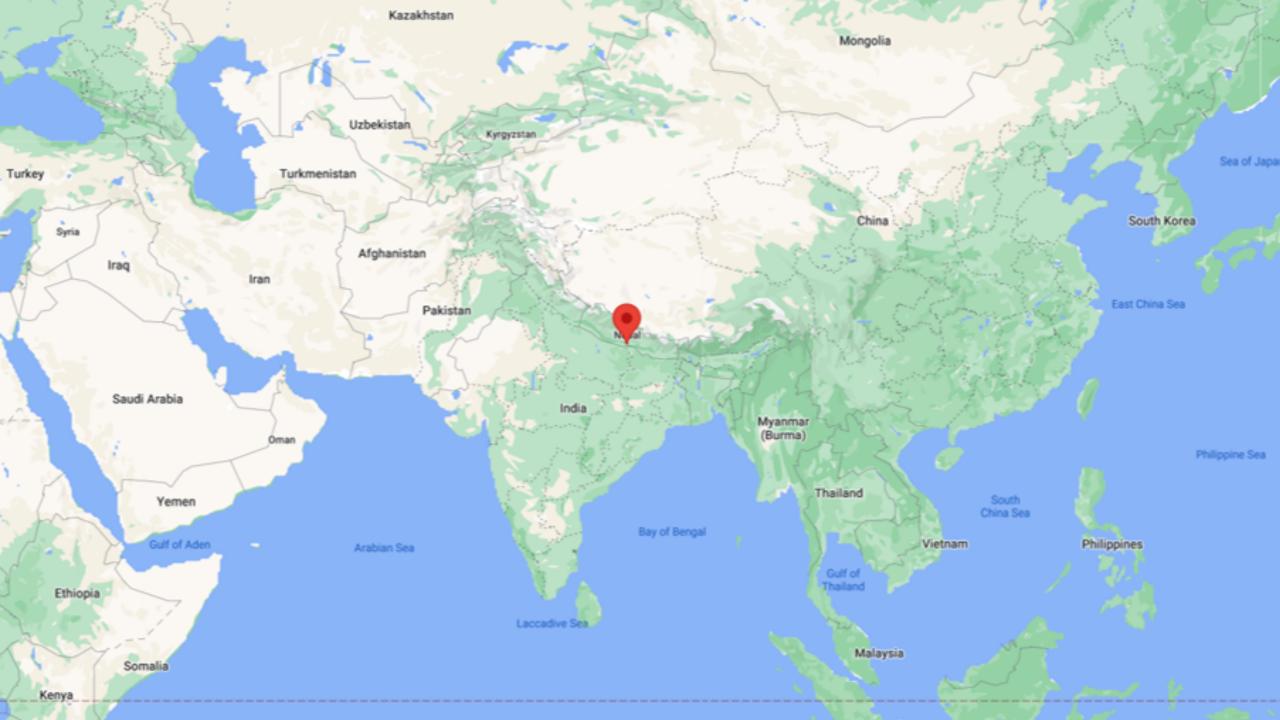
Digital commons



Localised manufacturing























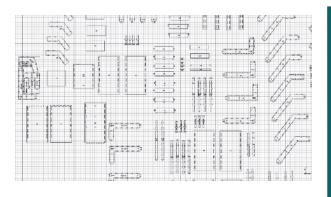






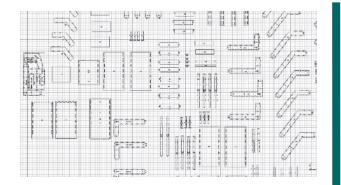






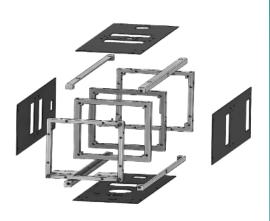




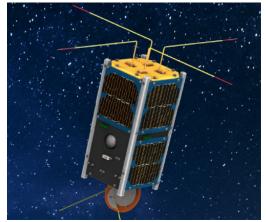


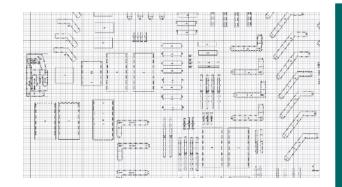






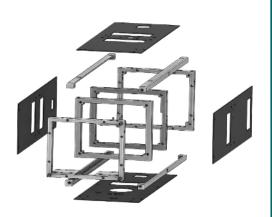


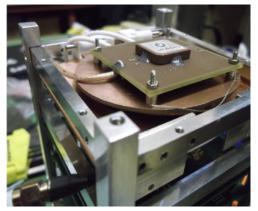




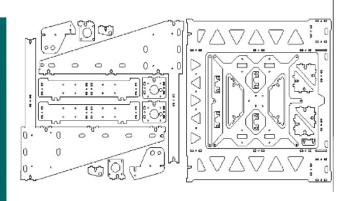


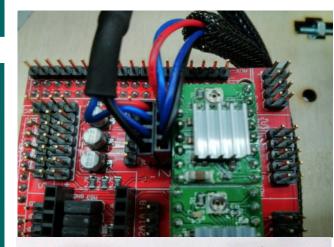


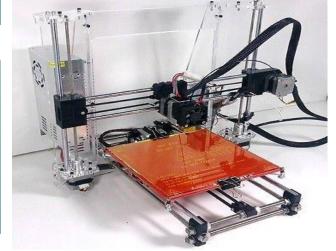






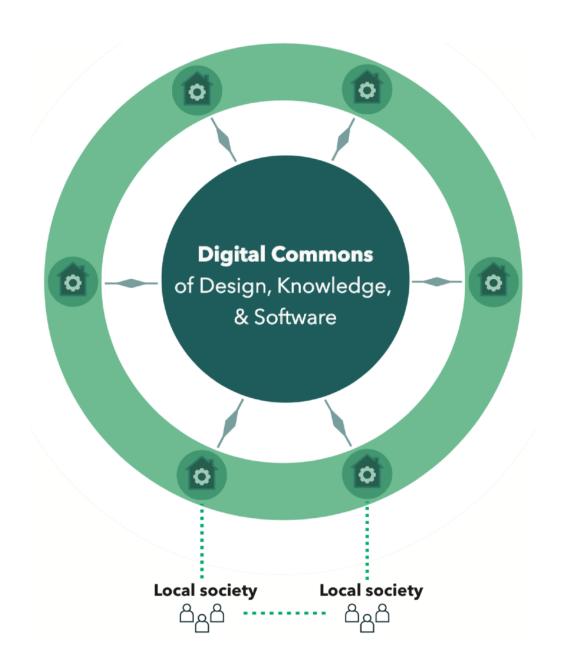




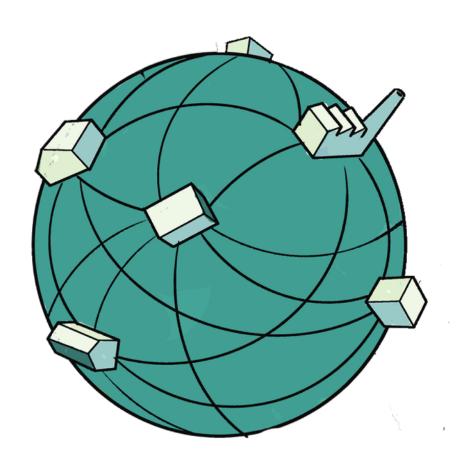




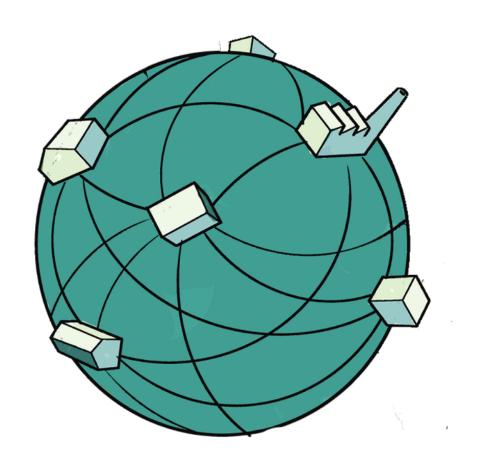




Cosmolocalism

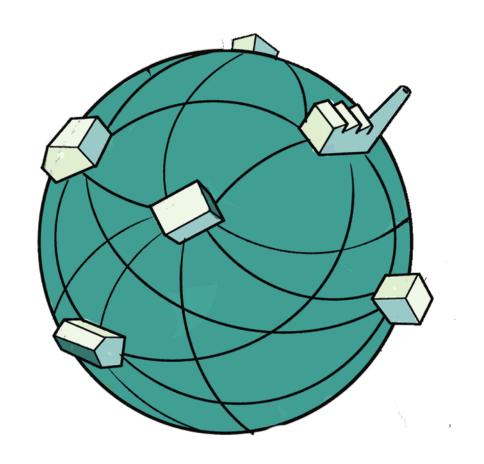


beyond global vs local

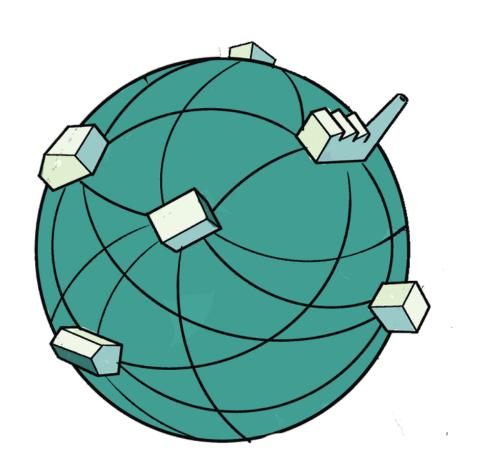


beyond global vs local

whatever is light is global, whatever is heavy is local

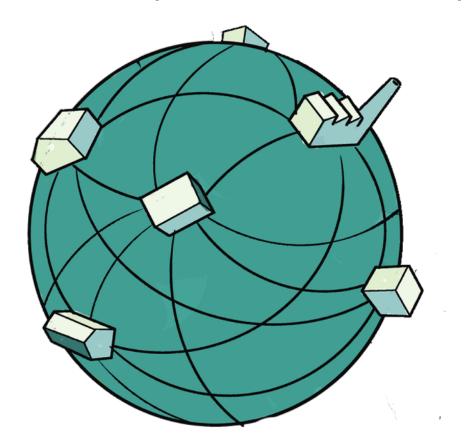


beyond global vs local beyond low-tech vs hi-tech

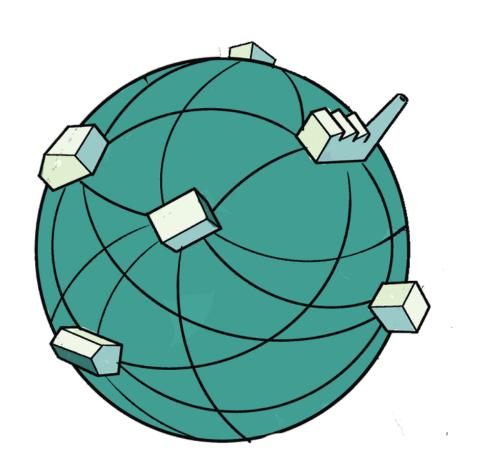


beyond global vs local beyond low-tech vs hi-tech

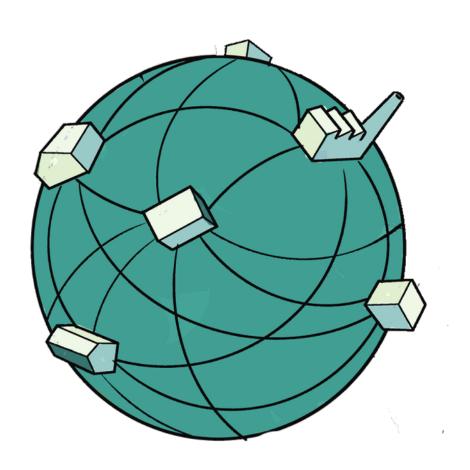
synthesise the best aspects because of openness



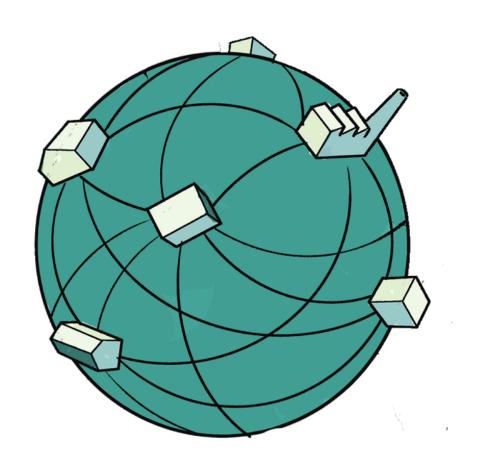
beyond global vs local beyond low-tech vs hi-tech

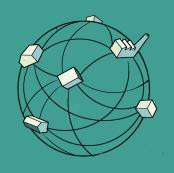


cosmolocal mid-tech

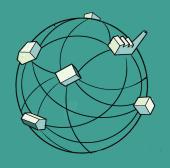


Four dynamics for sustainability

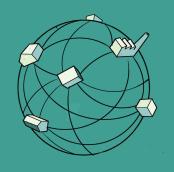




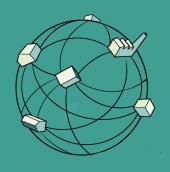
1. Design for sustainability



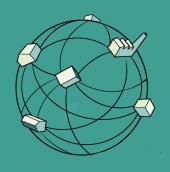
1. Design for sustainability (products designed to last as long as possible)



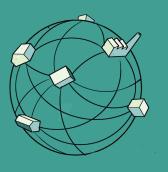
- 1. Design for sustainability
- 2. On-demand manufacturing



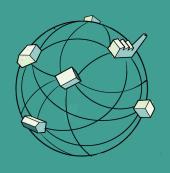
- 1. Design for sustainability
- 2. On-demand manufacturing (materials tend to travel less)



- 1. Design for sustainability
- 2. On-demand manufacturing
- 3. Sharing productive resources



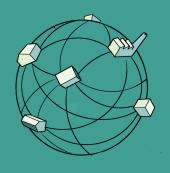
- 1. Design for sustainability
- 2. On-demand manufacturing
- 3. Sharing productive resources (infrastructures are optimised)



- 1. Design for sustainability
- 2. On-demand manufacturing
- 3. Sharing productive resources
- 4. Inclusive governance

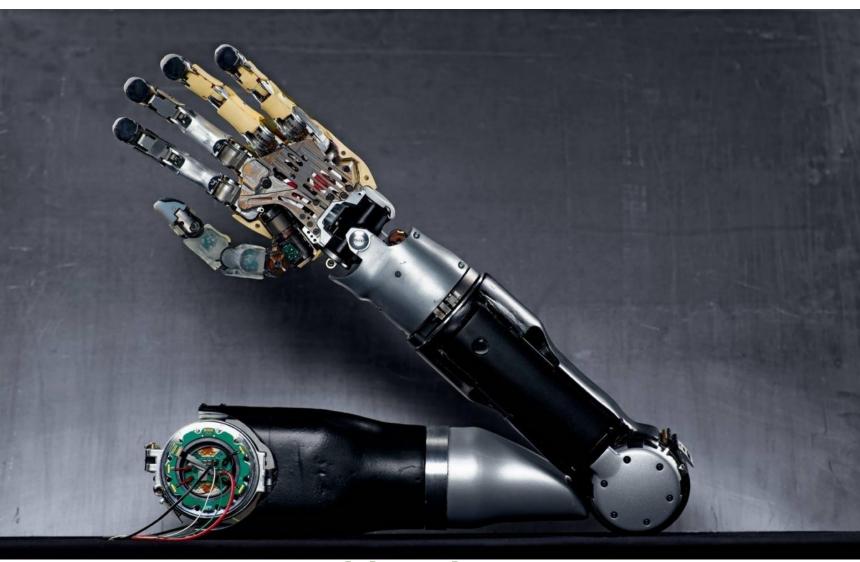


- 1. Design for sustainability
- 2. On-demand manufacturing
- 3. Sharing productive resources
- 4. Inclusive governance (participant-defined value systems)



- 1. Design for sustainability
- 2. On-demand manufacturing
- 3. Sharing productive resources
- 4. Inclusive governance

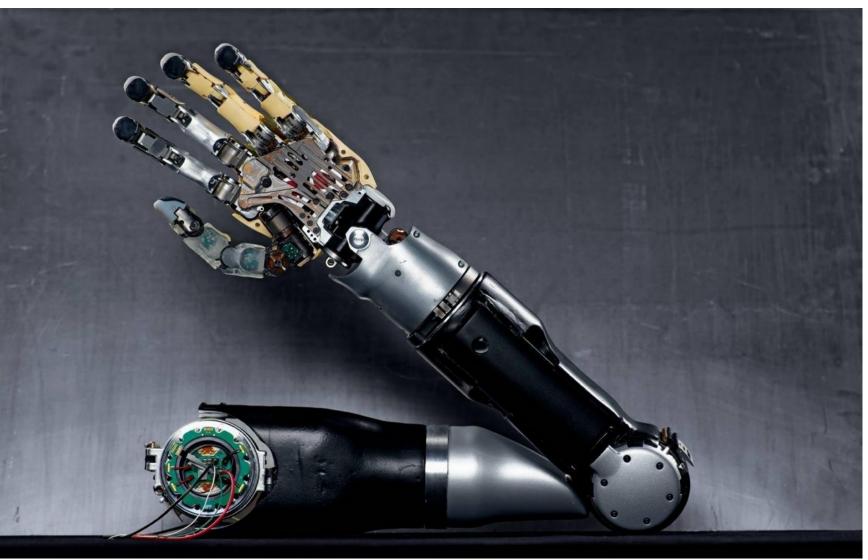






low-tech

hi-tech



hi-tech



mid-tech

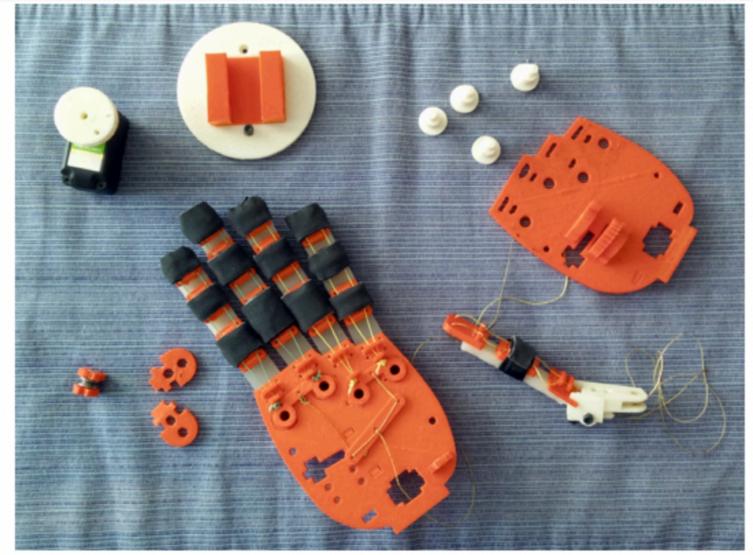




Figure 1. The first version of the OpenBionics prosthetic hand. The left subfigure presents the motor and the 3D printed and silicone parts needed to assemble the prosthesis. The right subfigure presents an assembled prosthesis fabricated with acrylic parts that are laser cut.





Figure 2. The OpenBionics body-powered partial hand prosthesis (left subfigure) and wearable exoskeleton glove (right subfigure).